

State Priorities Definition for WQ-27

About this file:

- What this template is:** This template is to be used by states to define their WQ-27 priorities. It can be used in conjunction with or instead of submitting GIS shapefiles. Upon submitting this template, EPA will review and process the data and will provide a file for the state to review and verify.
- Who should use this template:** Any state that does not have GIS data that defines their priorities must use this template. Any state that has GIS data but needs to refine that data by causes and/or uses should enter the causes/uses.
- Basic Excel help:** To access a drop-down list within a specific cell, select the cell. You should see a "down arrow" icon appear on the right side of the cell. Click the arrow icon to see the list of values.

Please do not merge cells or concatentate data into a single cell (e.g. do not list more than one cause of impairment in a single cell).

Instructions for filling out the worksheet tabs:

State Information

Step 1: Select your state from the State drop-down list. This field is REQUIRED.

Note: After you select a state, a list of the causes and uses used by that state in their most recent ATTAINS cycle will appear at the bottom of the page. **If you are defining priorities and/or uses, please make sure that the cause and/or use names that you enter exactly match the cause and use names in these lists (e.g., if you copy and paste from a separate document, make sure you paste the text exactly as it appears in the lists).**

Step 2: Select the baseline cycle for your priorities. All priorities must have the same baseline cycle. The baseline cycle should be the most recent cycle for which you have IR (or 303(d) data). This field is REQUIRED.

Step 3: The default goal cycle is 2022. You should only change this if advised to do so by EPA.

Step 4: Enter a contact name. If this field is left blank, EPA will assume that the person sending the template to HQ is the contact person.

Step 5: Enter a contact email. If this field is left blank, EPA will assume the email address of the person sending the template to HQ is the contact email address.

Step 6: *Are you submitting WQ-27 GIS data to further refine the priorities defined here?* This field is REQUIRED.

- * If you are submitting WQ-27 GIS data to help define your priorities, select "Yes".
- * Otherwise, select "No".

Step 7: *If you are defining one or more of your priorities by HUC or other polygon, how should EPA process them?* This field is REQUIRED.

- * If you are not using HUCs or other polygons to define your priorities, select "Not applicable".
- * If you are using HUCs or other polygons to define your priorities, the default procedure will be for EPA to identify within those HUCs or other polygons only the assessment units that are on the state's 303(d) list in the baseline cycle.
 - If that is how you want the priority universe to be defined, select "Default processing".
 - If you want EPA to include ALL assessment units in the HUC or other polygon, impaired or not, select "Include supporting AUs".

Reference Info After a state is selected, the following pieces of information appear at the bottom of the page:

- * A link to the ATTAINS state report for that state. If you are not sure which Assessment Unit IDs were used for ATTAINS reporting for your baseline cycle, you can visit this report to see which AUs were used for your data in ATTAINS.
- * The Causes and Uses that were used by that state in the most recent data submission to ATTAINS (at the time this template was created). These Causes and Uses also appear in the drop-down lists in the Cause Name and Use Desc columns on the WQ-27 Priorities worksheet. If you are using Causes and/or Uses to define your priorities, in almost all cases you should ensure you are using the same Cause or Use terminology.

WQ-27 Priorities

Each column is optional. You can fill in more than one column per row, per the instructions below.

Please do not merge cells or concatentate data into a single cell (e.g. do not list more than one cause of impairment in a single cell).

Priority ID If you have multiple priorities and you would like to group them by a user-defined priority ID, you may use this column to do so. This field is OPTIONAL.

HUC If you are using HUCs to define your priorities, enter them in this column. You may use any size HUC you'd like (HUC8, HUC12, HUC14, etc.). This field is OPTIONAL.

Assessment Unit ID If you are using Assessment Unit IDs to define your priorities, enter them in this column. Please ensure that the Assessment Unit IDs you enter exactly match the Assessment Unit IDs used by the state in the baseline cycle. If your priorities also includes Causes and/or Uses and an Assessment Unit ID has more than one Cause or Use in your priorities, enter each Assessment Unit ID and/or Assessment Unit/Use combination on a separate row. This field is OPTIONAL.

Cause Name If you are using Causes to define your priorities, enter them in this column. For any row that contains a Cause name but no HUC or Assessment Unit ID, EPA will assume that all waters in the priority universe are impaired by the specified Cause in the baseline cycle (OR, if you answered "Yes" in Step 6 above, all Causes on 303(d)-listed waters found in the GIS priority submission) that are impaired for the specified Cause in the priority universe. When selecting any cell in the Cause Name column, a drop-down list of valid Causes for the current state will appear. In almost all cases, you should select a valid Cause from this drop-down list. PLEASE DO NOT ENTER MORE THAN ONE CAUSE PER ROW.

Use Desc If you are using Uses to define your priorities, enter them in this column. For any row that contains a Use name but no HUC or Assessment Unit ID, EPA will assume that all waters in the priority universe are impaired by the specified Use in the baseline cycle (OR, if you answered "Yes" in Step 6 above, all Uses on waters found in the GIS priority submission) should go into the priority universe. When selecting any cell in the Use Desc column, a drop-down list of valid Uses for the current state will appear. In almost all cases, you should select a valid Use from this drop-down list. This field is OPTIONAL. This field is only used by states that submitted integrated reporting (IR) data to ATTAINS in the baseline cycle. PLEASE DO NOT ENTER MORE THAN ONE USE PER ROW.

WQ-27 Priorities - EXAMPLES

See this page for examples on how to populate the WQ-27 Priorities tab.

Step 1:	State:	AZ
Step 2:	Baseline Cycle:	2010
Step 3:	Goal Cycle:	2022
Step 4:	Contact Name:	
Step 5:	Contact Email:	
Step 6:	Are you submitting WQ-27 GIS data to further refine the priorities defined here?	Yes
Step 7:	If you are defining one or more of our priorities by HUC or other polygon, how should EPA process them?	Include supporting AUs

Reference Info

ATTAINS State Report URL

After you select a state, a link to the states's ATTAINS state report will appear here:

Available Causes and Uses for the Selected State

After you select a state, a list of the causes and uses used by that state in their most recent make sure that the cause and/or use names that you select exactly match the cause and use

AVAILABLE CAUSES FOR AZ

AMMONIA, UN-IONIZED
 AQUATIC PLANTS - NATIVE
 ARSENIC
 BERYLLIUM
 BORON
 CADMIUM
 CHLORDANE
 CHLORINE
 COPPER
 DDT
 DISSOLVED OXYGEN
 ESCHERICHIA COLI (E. COLI)
 LEAD
 MERCURY IN FISH TISSUE
 NITROGEN, TOTAL
 PH
 PHOSPHORUS, ELEMENTAL
 PHOSPHORUS, TOTAL
 SEDIMENTATION/SILTATION
 SELENIUM
 TOXAPHENE
 ZINC

Please select a state from drop-down. This field is REQUIRED.

Please select a baseline cycle from drop-down. You should select the most recent IR cycle for which you have data in ATTAINS. This field is REQUIRED.

The default goal cycle is 2022. You should only change this if advised to do so by EPA. This field is REQUIRED. This field is optional.

This field is optional.

Please select Yes or No from drop-down. This field is REQUIRED.

Please select a response from drop-down. See Instructions tab for more help. This field is REQUIRED.

http://ofmpub.epa.gov/waters10/attains_state.control?p_state=AZ

ATTAINS cycle will appear at the bottom of this page. If you are defining priorities based on causes and/or uses, please use names in these lists.

AVAILABLE USES FOR AZ*

AGRICULTURAL IRRIGATION

AGRICULTURAL LIVESTOCK WATERING

AQUATIC AND WILDLIFE (COLDWATER FISHERY)

AQUATIC AND WILDLIFE (EFFLUENT DEPENDENT WATER)

AQUATIC AND WILDLIFE (EPHEMERAL)

AQUATIC AND WILDLIFE (WARMWATER FISHERY)

DOMESTIC WATER SOURCE

FISH CONSUMPTION

FULL BODY CONTACT

PARTIAL BODY CONTACT



* USES ARE ONLY ALLOWED FOR IR STATES

EPA	EPA	EPA	EPA
Priority ID	HUC	Assessment Unit ID	Cause Name
San Pedro		15050202-003	ESCHERICHIA COLI (E. COLI)
		15050202-006	ESCHERICHIA COLI (E. COLI)
		15050202-008	ESCHERICHIA COLI (E. COLI)
Middle Gila		15070101-008	SELENIUM
		15070101-008	BORON
Pinto		15060103-885	COPPER
		15060103-887	COPPER
		15060103-018C	COPPER
		15060103-018A	COPPER
		15060103-018B	COPPER
Granite		15060202-059A	ESCHERICHIA COLI (E. COLI)
		15060202-059A	ESCHERICHIA COLI (E. COLI)
		15060202-767	ESCHERICHIA COLI (E. COLI)
		15060202-768	ESCHERICHIA COLI (E. COLI)
		15060202-772	ESCHERICHIA COLI (E. COLI)
Watson Lake Oak		15060202-1590	NITROGEN, TOTAL
		15060202-018A	ESCHERICHIA COLI (E. COLI)
		15060202-019	ESCHERICHIA COLI (E. COLI)
		15060202-018C	ESCHERICHIA COLI (E. COLI)
		15060202-018B	ESCHERICHIA COLI (E. COLI)
		15060202-017	ESCHERICHIA COLI (E. COLI)
		15060202-022	ESCHERICHIA COLI (E. COLI)
		15050301-008A	ESCHERICHIA COLI (E. COLI)
Santa Cruz		15050301-009	ESCHERICHIA COLI (E. COLI)
		15050301-500B	ESCHERICHIA COLI (E. COLI)
		15020001-009	SEDIMENTATION/SILTATION
LCR		15020001-010	SEDIMENTATION/SILTATION
		15020001-011	SEDIMENTATION/SILTATION
		15020001-005	SEDIMENTATION/SILTATION
		15020001-018	SEDIMENTATION/SILTATION
Queen Creek		15050100-014A	COPPER
		15050100-014B	COPPER
		15050100-014C	COPPER
		15050100-991	COPPER
		15050100-1843	COPPER
		15050100-1000	COPPER
Rainbow		15020005-1170	NITROGEN, TOTAL

EPA	ACWA	ACWA
Use Desc	Potential to Include Protection	Potential to Use Alternative
FULL BODY CONTACT	No	
FULL BODY CONTACT	Maybe	
FULL BODY CONTACT	No	
AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No	No
AGRICULTURAL IRRIGATION	No	No
AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No	No
AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No	No
AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No	No
AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No	No
AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No	No
FULL BODY CONTACT	No	
FULL BODY CONTACT	No	
FULL BODY CONTACT	No	
FULL BODY CONTACT	No	
FULL BODY CONTACT	No	
AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No	
FULL BODY CONTACT	No	
FULL BODY CONTACT	No	
FULL BODY CONTACT	No	
FULL BODY CONTACT	No	
FULL BODY CONTACT	No	
FULL BODY CONTACT	No	
FULL BODY CONTACT	No	
FULL BODY CONTACT	No	
FULL BODY CONTACT	No	
AQUATIC AND WILDLIFE (COLDWATER FISHERY)	No	
AQUATIC AND WILDLIFE (COLDWATER FISHERY)	No	
AQUATIC AND WILDLIFE (COLDWATER FISHERY)	No	
AQUATIC AND WILDLIFE (COLDWATER FISHERY)	No	
AQUATIC AND WILDLIFE (COLDWATER FISHERY)	No	
AQUATIC AND WILDLIFE (WARMWATER FISHERY)	Maybe	No
AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No	No
AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No	No
AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No	No
AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No	No
AQUATIC AND WILDLIFE (WARMWATER FISHERY)	No	No
AQUATIC AND WILDLIFE (COLDWATER FISHERY)	No	

ACWA	ACWA
Potential Alternative Type	Other Description / Comment

Watershed Plan	Combined TMDL/Watershed Implementation Plan
Watershed Plan	Combined TMDL/Watershed Implementation Plan
Watershed Plan	Combined TMDL/Watershed Implementation Plan

Watershed Plan	Combined TMDL/Watershed Implementation Plan
Watershed Plan	Combined TMDL/Watershed Implementation Plan
Watershed Plan	Combined TMDL/Watershed Implementation Plan
Watershed Plan	Combined TMDL/Watershed Implementation Plan
Watershed Plan	Combined TMDL/Watershed Implementation Plan
Watershed Plan	Combined TMDL/Watershed Implementation Plan
Combination of Approaches	Existing TMDL followed up with detailed Watershed Implementation Plan
Combination of Approaches	Existing TMDL followed up with detailed Watershed Implementation Plan
Combination of Approaches	Existing TMDL followed up with detailed Watershed Implementation Plan
Combination of Approaches	Existing TMDL followed up with detailed Watershed Implementation Plan
Combination of Approaches	Existing TMDL followed up with detailed Watershed Implementation Plan
Combination of Approaches	Existing TMDL followed up with detailed Watershed Implementation Plan
Combination of Approaches	Existing TMDL followed up with detailed Watershed Implementation Plan
Combination of Approaches	Existing TMDL followed up with detailed Watershed Implementation Plan
Combination of Approaches	Existing TMDL followed up with detailed Watershed Implementation Plan
Combination of Approaches	Existing TMDL followed up with detailed Watershed Implementation Plan
Combination of Approaches	Existing TMDL followed up with detailed Watershed Implementation Plan
Combination of Approaches	No loading included in existing TMDL

Combination of Approaches	Existing TMDL followed up with detailed Watershed Implementation Plan
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Below are example entries that a state might use on the WQ-27 Priorities tab. This i

Example #	Priority ID	HUC	Assessment Unit ID	Cause Name
Example A			XX-123	NITROGEN
			XX-123	SEDIMENTS
			XX-234	NITROGEN
			XX-345	NITROGEN
Example B				NITROGEN
				SEDIMENTS
				TEMPERATURE
Example C			XX-123	NITROGEN
			XX-234	SEDIMENTS
Example D	1	01234567912		
	1	91389183918		
	2	12345678901		
	3	23456789012		FECAL COLIFORM

s not an exhaustive list; other combin

Use Desc

DOMESTIC WATER SUPPLY

AQUATIC LIFE
PRIMARY CONTACT RECREATION

ations are possible.

Notes

In this example, state XX is defining their priorities based on combinations of Assessment Unit ID and Cause Name. The priority universe will be all AU/cause combinations listed in the template. The state did not define Priority IDs. In this case, EPA will create the Priority IDs; for example, EPA may group the AUs with Nitrogen cause under one priority ID, and the AU with Sediments cause

In this example, the priority universe will be :

- All* 303(d)-listed waters in the baseline cycle that were impaired by Nitrogen, Sediments, or Temperature, **PLUS**
- All* 303(d) listed waters in the baseline cycle that were assessed for use Domestic Water Supply.

In this example, the priority universe will be:

- All* 303(d)-listed waters for the baseline cycle that were impaired by Nitrogen, **PLUS**
- Assessment Unit XX-123 impaired by cause Sediment, **PLUS**
- All impairments in the baseline cycle for Assessment Unit XX-234.

In this example, the priority universe will be:

- All 303(d)-listed waters for the baseline cycle that are in HUCs 01234567912 or 91389183918, **PLUS**
- Only those 303(d) listed waters in HUC 12345678901 that were assessed for use Aquatic Life, **PLUS**
- Only those 303(d) listed waters in HUC 23456789012 that were assessed for use Primary Contact Recreation and impaired by Fecal Coliform.

*If the state also provided WQ-27 GIS data to define priority locations, the universe would be restricted to assessment units in the defined area. Otherwise, EPA will consider the entire state area.

Waterbody Type	Type of Alternative	Potential Decisions	Size Units
River/Stream	Permit	Yes	miles
Wetland	Watershed Plan	No	square miles
Lake/Pond/Impoundment	Direct Implementation	Maybe	acres
Estuary	Combination of Approaches	Not Applicable	
Ocean	Other		

State	Baseline Cycle	Yes/No	
AK	2008	Yes	AZ_USE
AL	2010	No	AZ_CAUSE
AR	2012		
AS	2014	HUC handling	
AZ	2016	Not applicable	
CA	2018	Default processing	
CN	2020	Include supporting AUs	
CO			
CT			
DC			
DE			
FL			
GA			
GU			
HI			
IA			
ID			
IL			
IN			
KS			
KY			
LA			
MA			
MD			
ME			
MI			
MN			
MO			
MS			
MT			
NC			
ND			
NE			
NH			
NJ			
NM			
NV			
NY			
OH			
OK			
OR			
PA			
PR			
RI			
SC			
SD			

AK_USE

FRESH WATER / GROWTH AND PROPAGATION OF FISH, SHELLFISH, OTHER AQUATIC LIFE AND WILDLIFE
FRESH WATER / WATER RECREATION / CONTACT RECREATION
FRESH WATER / WATER RECREATION / SECONDARY RECREATION
FRESH WATER / WATER SUPPLY / AGRICULTURE, INCLUDING IRRIGATION AND STOCK WATERING
FRESH WATER / WATER SUPPLY / AQUACULTURE
FRESH WATER / WATER SUPPLY / DRINKING, CULINARY, AND FOOD PROCESSING
FRESH WATER / WATER SUPPLY / INDUSTRIAL
MARINE WATER / GROWTH AND PROPAGATION OF FISH, SHELLFISH, OTHER AQUATIC LIFE AND WILDLIFE
MARINE WATER / HARVESTING FOR CONSUMPTION OF RAW MOLLUSKS OR OTHER RAW AQUATIC LIFE
MARINE WATER / WATER RECREATION / CONTACT RECREATION
MARINE WATER / WATER RECREATION / SECONDARY RECREATION
MARINE WATER / WATER SUPPLY / AQUACULTURE
MARINE WATER / WATER SUPPLY / INDUSTRIAL
MARINE WATER / WATER SUPPLY / SEAFOOD PROCESSING

AL_USE

CONTACT RECREATION
DRINKING AND FOOD PROCESSING
FISHING
INDUSTRIAL AND AGRICULTURE USES
OUTSTANDING ALABAMA WATER
PROPAGATION OF FISH AND WILDLIFE
SHELLFISHING

AR_USE

AGRICULTURAL WATER SUPPLY
DOMESTIC WATER SUPPLY
ECOLOGICALLY SENSITIVE WATERBODY
EXTRAORDINARY RESOURCE WATERS
FISH CONSUMPTION
FISHERIES
INDUSTRIAL WATER SUPPLY
NATURAL AND SCENIC WATERWAYS
PRIMARY CONTACT RECREATION
SECONDARY CONTACT RECREATION

AS_USE

AGRICULTURE
AQUATIC LIFE
CULT./CEREMONIAL
FISH CONSUMPTION
RECREATION
SWIMMING

AZ_USE

AGRICULTURAL IRRIGATION

AGRICULTURAL LIVESTOCK WATERING

AQUATIC AND WILDLIFE (COLDWATER FISHERY)

AQUATIC AND WILDLIFE (EFFLUENT DEPENDENT WATER)

AQUATIC AND WILDLIFE (EPHEMERAL)

AQUATIC AND WILDLIFE (WARMWATER FISHERY)

DOMESTIC WATER SOURCE

FISH CONSUMPTION

FULL BODY CONTACT

PARTIAL BODY CONTACT

CA_USE

AGRICULTURAL SUPPLY
COLD FRESHWATER HABITAT
COMMERCIAL AND SPORT FISHING
CULTURAL/TRADITIONAL RIGHTS
ESTUARINE HABITAT
FRESHWATER REPLENISHMENT
GROUND WATER RECHARGE
INDUSTRIAL SERVICE SUPPLY
INLAND SALINE WATER HABITAT
LIMITED WARM FRESHWATER HABITAT
MARINE HABITAT
MIGRATION OF AQUATIC ORGANISMS
MUNICIPAL AND DOMESTIC SUPPLY
NON-CONTACT WATER RECREATION
PRESERVATION OF BIOLOGICAL HABITATS
RARE, THREATENED, OR ENDANGERED SPECIES
SHELLFISH HARVESTING
SPAWNING, REPRODUCTION, AND/OR EARLY DEVELOPMENT
WARM FRESHWATER HABITAT
WATER CONTACT RECREATION
WETLAND HABITAT
WILDLIFE HABITAT

CN_USE

AESTHETIC, OTHERS
AQUATIC LIFE
FISH CONSUMPTION
POTABLE WATER
RECREATION

CO_USE

AGRICULTURE

AQUATIC LIFE COLD WATER-CLASS 1

AQUATIC LIFE COLD WATER-CLASS 2

AQUATIC LIFE WARM WATER-CLASS 1

AQUATIC LIFE WARM WATER-CLASS 2

DOMESTIC WATER SOURCE

RECREATION PRIMARY CONTACT

RECREATION SECONDARY CONTACT

CT_USE

COMMERCIAL SHELLFISH HARVESTING WHERE AUTHORIZED

EXISTING OR PROPOSED DRINKING WATER

FISH CONSUMPTION

HABITAT FOR FISH, OTHER AQUATIC LIFE AND WILDLIFE

HABITAT FOR MARINE FISH, OTHER AQUATIC LIFE AND WILDLIFE

POTENTIAL DRINKING WATER SUPPLIES

RECREATION

SHELLFISH HARVESTING FOR DIRECT CONSUMPTION WHERE AUTHORIZED

DC_USE

NAVIGATION

PRIMARY CONTACT RECREATION

PROTECTION AND PROPAGATION OF FISH, SHELLFISH AND WILDLIFE

PROTECTION OF HUMAN HEALTH RELATED TO CONSUMPTION OF FISH AND SHELLFISH

SECONDARY CONTACT RECREATION AND AESTHETIC ENJOYMENT

DE_USE

AGRICULTURAL WATER SUPPLY

COLD WATER FISH

FISH, AQUATIC LIFE, AND WILDLIFE

HARVESTABLE SHELLFISH WATERS

INDUSTRIAL WATER SUPPLY

PRIMARY CONTACT RECREATION

PUBLIC WATER SUPPLY

SECONDARY CONTACT RECREATION

WATERS OF EXCEPTIONAL RECREATIONAL OR ECOLOGICAL SIGNIFICANCE

FL_USE

FISH AND WILDLIFE PROPAGATION - FRESHWATER
FISH AND WILDLIFE PROPAGATION - MARINE
POTABLE WATER SUPPLIES
SHELLFISH PROPAGATION

GA_USE

COASTAL FISHING
DRINKING WATER SUPPLY
FISHING
RECREATION
SCENIC RIVER
WILD RIVER

GU_USE	HI_USE	IA_USE
AESTHETIC ENJOYMENT	AQUATIC LIFE	AQUATIC LIFE - COLDWATER
AQUATIC LIFE	NONE	AQUATIC LIFE SUPPORT
CONSUMPTION	RECREATION	DRINKING WATER
DRINKING WATER		FISH CONSUMPTION
DRINKING WATER (WITH TREATMENT)		GENERAL USE
LIMITED BODY CONTACT RECREATION		HUMAN HEALTH
WHOLE BODY CONTACT RECREATION		RECREATION - PRIMARY
		SECONDARY CONTACT RECREATION

ID_USE	IL_USE
AESTHETIC	AESTHETIC QUALITY
AGRICULTURAL WATER SUPPLY	AQUATIC LIFE
COLD WATER AQUATIC LIFE	FISH CONSUMPTION
DOMESTIC WATER SUPPLY	INDIGENOUS AQUATIC LIFE
INDUSTRIAL WATER SUPPLY	PRIMARY CONTACT RECREATION
MODIFIED AQUATIC LIFE	PUBLIC AND FOOD PROCESSING WATER SUPPLIES
PRIMARY CONTACT RECREATION	SECONDARY CONTACT
SALMONID SPAWNING	
SEASONAL COLD WATER AQUATIC LIFE	
SECONDARY CONTACT RECREATION	
UNDESIGNATED SURFACE WATERS	
WARM WATER AQUATIC LIFE	
WILDLIFE HABITAT	

IN_USE

FULL BODY CONTACT
GREAT LAKES AGRICULTURAL USE
HUMAN HEALTH AND WILDLIFE
LIMITED USE
OUTSTANDING STATE RESOURCE WATERS
PUBLIC WATER SUPPLY
WARM WATER AQUATIC LIFE

KS_USE

AQUATIC LIFE USE
DOMESTIC WATER SUPPLY
FOOD PROCUREMENT
RECREATION

KY_USE

AQUATIC LIFE SUPPORT
COLD WATER AQUATIC HABITAT
DOMESTIC WATER SUPPLY
FISH CONSUMPTION
OUTSTANDING STATE RESOURCE WATER
PRIMARY CONTACT RECREATION WATER
SECONDARY CONTACT RECREATION WATER
WARM WATER AQUATIC HABITAT

LA_USE

AGRICULTURE
DRINKING WATER SUPPLY
FISH AND WILDLIFE PROPAGATION
LIMITED AQUATIC LIFE AND WILDLIFE USE
OUTSTANDING NATURAL RESOURCE WATERS
OYSTER PROPAGATION
PRIMARY CONTACT RECREATION
SECONDARY CONTACT RECREATION

MA_USE

AESTHETIC
FISH CONSUMPTION
FISH, OTHER AQUATIC LIFE AND WILDLIFE
PRIMARY CONTACT RECREATION
PUBLIC WATER SUPPLY
SECONDARY CONTACT RECREATION
SHELLFISH HARVESTING

MD_USE

OVERALL USE

ME_USE

DRINKING WATER SUPPLY AFTER DISINFECTION
DRINKING WATER SUPPLY AFTER TREATMENT
FISH AND OTHER AQUATIC LIFE
FISH AND OTHER ESTUARINE AND MARINE LIFE
FISH CONSUMPTION
FISHING
HYDROELECTRIC POWER GENERATION
INDUSTRIAL PROCESS AND COOLING WATER SUPPLY
NAVIGATION
PRIMARY CONTACT RECREATION
PROPAGATION AND HARVESTING OF SHELLFISH
SECONDARY CONTACT RECREATION

MI_USE

AGRICULTURE
COLD WATER FISHERY
FISH CONSUMPTION
INDUSTRIAL WATER SUPPLY
NAVIGATION
OTHER INDIGENOUS AQUATIC LIFE
PARTIAL BODY CONTACT RECREATION
PUBLIC WATER SUPPLY
TOTAL BODY CONTACT RECREATION
WARM WATER FISHERY

MN_USE

CLASS 1B DRINKING WATER
CLASS 1C DRINKING WATER
CLASS 2A AQUATIC RECREATION
CLASS 2A COLD WATER AQUATIC CONSUMPTION
CLASS 2A COLD WATER AQUATIC LIFE
CLASS 2A DRINKING WATER
CLASS 2B
CLASS 2B AQUATIC RECREATION
CLASS 2B WARM WATER AQUATIC CONSUMPTION
CLASS 2B WARM WATER AQUATIC LIFE
CLASS 2BD AQUATIC RECREATION
CLASS 2BD WARM WATER AQUATIC CONSUMPTION
CLASS 2BD WARM WATER AQUATIC LIFE
CLASS 2C AQUATIC RECREATION
CLASS 2C WARM WATER AQUATIC CONSUMPTION
CLASS 2C WARM WATER AQUATIC LIFE
CLASS 2D AQUATIC RECREATION
CLASS 2D WETLAND AQUATIC CONSUMPTION
CLASS 2D WETLAND AQUATIC LIFE
CLASS 7 LIMITED RESOURCE VALUE WATERS

MO_USE

AQUATIC LIFE
COLD WATER FISHERY
COOL WATER FISHERY
DRINKING WATER SUPPLY
GENERAL USE
INDUSTRIAL PROCESS WATER AND INDUSTRIAL COOLING WATER
IRRIGATION
LIVESTOCK AND WILDLIFE WATERING
SECONDARY CONTACT RECREATION
WHOLE BODY CONTACT RECREATION - A
WHOLE BODY CONTACT RECREATION - B

MS_USE

AQUATIC LIFE USE SUPPORT
FISH CONSUMPTION
PRIMARY CONTACT RECREATION
SECONDARY CONTACT RECREATION

MT_USE	NC_USE	ND_USE
AGRICULTURAL	AQUATIC LIFE	AGRICULTURAL
AQUATIC LIFE	FISH CONSUMPTION	FISH AND OTHER AQUATIC BIOTA
DRINKING WATER	RECREATION	FISH CONSUMPTION
PRIMARY CONTACT RECREATION	SHELLFISH HARVESTING	INDUSTRIAL
	WATER SUPPLY	MUNICIPAL AND DOMESTIC
		RECREATION

NE_USE

AESTHETICS
AGRICULTURE WATER SUPPLY
AQUATIC LIFE
INDUSTRIAL WATER SUPPLY
PRIMARY CONTACT RECREATION
PUBLIC DRINKING WATER SUPPLY

NH_USE

AQUATIC LIFE
DRINKING WATER SUPPLY
FISH CONSUMPTION
PRIMARY CONTACT RECREATION
SECONDARY CONTACT RECREATION
SHELLFISH CONSUMPTION
WILDLIFE

NJ_USE

AGRICULTURAL WATER SUPPLY
AQUATIC LIFE
AQUATIC LIFE - TROUT
DRINKING WATER SUPPLY
FISH CONSUMPTION
INDUSTRIAL WATER SUPPLY
PRIMARY CONTACT RECREATION
SECONDARY CONTACT RECREATION
SHELLFISH HARVESTING

NM_USE

COLDWATER AQUATIC LIFE
COOLWATER AQUATIC LIFE
DOMESTIC WATER SUPPLY
FISH CULTURE
HIGH QUALITY COLDWATER AQUATIC LIFE
INDUSTRIAL WATER SUPPLY
IRRIGATION
IRRIGATION STORAGE
LIMITED AQUATIC LIFE
LIVESTOCK WATERING
MARGINAL COLDWATER AQUATIC LIFE
MARGINAL WARMWATER AQUATIC LIFE
PRIMARY CONTACT
PUBLIC WATER SUPPLY
SECONDARY CONTACT
WARMWATER AQUATIC LIFE
WILDLIFE HABITAT

NV_USE

AQUATIC LIFE
ENHANCEMENT OF WATER QUALITY
FISH CONSUMPTION
FRESHWATER MARSH
INDUSTRIAL SUPPLY
IRRIGATION
MUNICIPAL OR DOMESTIC SUPPLY
OVERALL USE
PROPAGATION OF WILDLIFE
RECREATION INVOLVING CONTACT WITH THE WATER
RECREATION NOT INVOLVING CONTACT WITH THE WATER
WATERING OF LIVESTOCK
WATERS OF EXTRAORDINARY ECOLOGICAL OR AESTHETIC VALUE

NY_USE

AQUATIC LIFE

ENJOYMENT

FISHING

HABITAT/HYDROLOGY

PRIMARY CONTACT RECREATION

SECONDARY CONTACT RECREATION

SHELLFISH

SOURCE OF WATER SUPPLY FOR DRINKING, CULINARY OR FOOD PROCESSING PURPOSE

TEMPORARY PLACEHOLDER

OH_USE

AQUATIC LIFE USE

HUMAN HEALTH USE

PUBLIC DRINKING WATER SUPPLY USE

RECREATIONAL USE

OK_USE

AESTHETIC

AGRICULTURE

EMERGENCY WATER SUPPLY

FISH AND WILDLIFE PROPAGATION-COOL WATER AQUATIC COMMUNITY SUBCATEGORY

FISH AND WILDLIFE PROPAGATION-HABITAT LIMITED AQUATIC COMMUNITY SUBCATEGORY

FISH AND WILDLIFE PROPAGATION-TROUT FISHERY (PUT AND TAKE) SUBCATEGORY

FISH AND WILDLIFE PROPAGATION-WARM WATER AQUATIC COMMUNITY SUBCATEGORY

FISH CONSUMPTION

HQW-HIGH QUALITY WATER

NAVIGATION

ORW-OUTSTANDING RESOURCE

PRIMARY BODY CONTACT RECREATION

PUBLIC AND PRIVATE WATER SUPPLY

SECONDARY BODY CONTACT RECREATION

SWS-SENSITIVE WATER SUPPLY

OR_USE

AESTHETIC QUALITY
ANADROMOUS FISH PASSAGE
AQUATIC LIFE
BULL TROUT SPAWNING AND JUVENILE REARING
COLD-WATER AQUATIC LIFE
COOL-WATER AQUATIC LIFE
CORE COLD WATER HABITAT
DRINKING WATER
ESTUARINE WATER
FISHING
HUMAN HEALTH
LIVESTOCK WATERING
REDBAND OR LAHONTAN CUTTHROAT TROUT
RESIDENT FISH AND AQUATIC LIFE
RESIDENT TROUT SPAWNING
SALMON AND STEELHEAD MIGRATION CORRIDOR
SALMON AND STEELHEAD SPAWNING
SALMON AND TROUT REARING AND MIGRATION
SALMONID FISH REARING
SALMONID FISH SPAWNING
SHELLFISH GROWING
TEMPORARY PLACEHOLDER
WATER CONTACT RECREATION

PA_USE

AQUATIC LIFE
FISH CONSUMPTION
POTABLE WATER SUPPLY
RECREATIONAL

PR_USE

AQUATIC LIFE
DRINKING WATER SUPPLY
PRIMARY CONTACT RECREATION
SECONDARY CONTACT (RECR)

RI_USE

FISH AND WILDLIFE HABITAT
FISH CONSUMPTION
PRIMARY CONTACT RECREATION
PUBLIC DRINKING WATER SUPPLY
SECONDARY CONTACT RECREATION
SHELLFISH CONSUMPTION
SHELLFISH CONTROLLED RELAY AND DEPURATION

SC_USE

AQUATIC LIFE SUPPORT

FISH CONSUMPTION

PRIMARY CONTACT RECREATION

SHELLFISH HARVESTING

SD_USE

COLDWATER MARGINAL FISH LIFE PROPAGATION WATERS
COLDWATER PERMANENT FISH LIFE PROPAGATION WATERS
COMMERCE AND INDUSTRY WATERS
DOMESTIC WATER SUPPLY WATERS
FISH AND WILDLIFE PROPAGATION, RECREATION, AND STOCK WATERING WATERS
IMMERSION RECREATION WATERS
IRRIGATION WATERS
LIMITED CONTACT RECREATION WATERS
WARMWATER MARGINAL FISH LIFE PROPAGATION WATERS
WARMWATER PERMANENT FISH LIFE PROPAGATION WATERS
WARMWATER SEMIPERMANENT FISH LIFE PROPAGATION WATERS

TN_USE	TT_USE	TX_USE
DOMESTIC WATER SUPPLY		AQUATIC LIFE USE
FISH AND AQUATIC LIFE		DOMESTIC WATER SUPPLY - PUBLIC WATER SUPPLY
INDUSTRIAL WATER SUPPLY		FISH CONSUMPTION USE
IRRIGATION		GENERAL USE
LIVESTOCK WATERING AND WILDLIFE		OYSTER AQUATIC LIFE
NATURALLY REPRODUCING TROUT STREAM		PRIMARY RECREATION/SWIMMING
NAVIGATION		RECREATIONAL BEACHES
RECREATION		

UT_USE

AGRICULTURAL
COLD WATER AQUATIC LIFE
DOMESTIC WATER SUPPLY
NON-GAME FISH AND OTHER AQUATIC LIFE
PRIMARY RECREATION
SECONDARY RECREATION
WARM WATER AQUATIC LIFE
WILDLIFE HABITAT

VA_USE

AQUATIC LIFE
DEEP-CHANNEL SEASONAL REFUGE
DEEP-WATER AQUATIC LIFE
FISH CONSUMPTION
MIGRATORY FISH SPAWNING AND NURSERY
OPEN-WATER AQUATIC LIFE
PUBLIC WATER SUPPLY
RECREATION
SHALLOW-WATER SUBMERGED AQUATIC VEGETATION
SHELLFISHING
WILDLIFE

VI_USE

AQUATIC LIFE USE
PRIMARY CONTACT RECREATION

VT_USE

AESTHETIC
AQUATIC BIOTA, WILDLIFE, AND AQUATIC HABITAT
BOATING, FISHING, AND OTHER RECREATIONAL USES
FISH CONSUMPTION
PUBLIC WATER SUPPLY
SWIMMING AND OTHER PRIMARY CONTACT RECREATION

WA_USE	WI_USE
DESIGNATED USE	FISH AND AQUATIC LIFE
	FISH CONSUMPTION
	PUBLIC WATER SUPPLY
	RECREATION USE

WV_USE

AGRICULTURE AND WILDLIFE
PUBLIC WATER SUPPLY
TROUT WATERS
WARM WATER FISHERY
WATER CONTACT RECREATION
WATER SUPPLY INDUSTRIAL, WATER TRANSPORT, COOLING AND POWER

WY_USE

AGRICULTURE
AQUATIC LIFE OTHER THAN FISH
COLD WATER FISHERY
DRINKING WATER
FISH CONSUMPTION
INDUSTRY
NON-GAME FISH
RECREATION
SCENIC VALUE
WARM WATER FISHERY
WILDLIFE

AK_CAUSE	AL_CAUSE
ALUMINUM	ALUMINUM
ANTIMONY	AMMONIA, TOTAL
ARSENIC	ARSENIC
BOTTOM DEPOSITS	CARBONACEOUS BOD
CADMIUM	CHLORIDE
COPPER	CHROMIUM, TRIVALENT
DEBRIS/FLOATABLES/TRASH	COPPER
DISSOLVED OXYGEN SATURATION	CYANIDE
FECAL COLIFORM	DDT
IRON	DIELDRIN
LEAD	ENTEROCOCCUS BACTERIA
MANGANESE	ESCHERICHIA COLI (E. COLI)
MERCURY	FECAL COLIFORM
NICKEL	IRON
PETROLEUM HYDROCARBONS	LEAD
RESIDUES	MERCURY
SEDIMENTATION/SILTATION	NITROGENOUS BOD
SULFATES	PH
TURBIDITY	PHOSPHORUS, TOTAL
ZINC	POLYCHLORINATED BIPHENYLS (PCBS)
	SEDIMENTATION/SILTATION
	THALLIUM
	TOTAL DISSOLVED SOLIDS (TDS)
	TURBIDITY
	WHOLE EFFLUENT TOXICITY (WET)
	ZINC

AR_CAUSE	AS_CAUSE	AZ_CAUSE
ALUMINUM	ARSENIC	AMMONIA, UN-IONIZED
BERYLLIUM	DISSOLVED OXYGEN	AQUATIC PLANTS - NATIVE
CADMIUM	ENTEROCOCCUS BACTERIA	ARSENIC
CHLORIDE	NITROGEN, TOTAL	BERYLLIUM
COPPER	PHOSPHORUS, TOTAL	BORON
DISSOLVED OXYGEN	TURBIDITY	CADMIUM
ESCHERICHIA COLI (E. COLI)	UNDETERMINED NPS STRESSOR	CHLORDANE
FECAL COLIFORM		CHLORINE
LEAD		COPPER
NITRATES		DDT
PH		DISSOLVED OXYGEN
PHOSPHORUS, TOTAL		ESCHERICHIA COLI (E. COLI)
SEDIMENTATION/SILTATION		LEAD
SULFATES		MERCURY IN FISH TISSUE
TEMPERATURE		NITROGEN, TOTAL
TOTAL DISSOLVED SOLIDS (TDS)		PH
TURBIDITY		PHOSPHORUS, ELEMENTAL
ZINC		PHOSPHORUS, TOTAL
		SEDIMENTATION/SILTATION
		SELENIUM
		TOXAPHENE
		ZINC

CA_CAUSE

2-METHYLNAPHTHALENE
ACID MINE DRAINAGE
ALDICARB
ALGAE
ALGAL TOXINS
ALPHA-BHC
ALUMINUM
AMMONIA
AMMONIA NITROGEN
AMMONIA, UN-IONIZED
ARSENIC
BACTERIA
BEACH CLOSURES
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
BENZO[A]ANTHRACENE
BENZO[A]PYRENE
BENZO[B]FLUORANTHENE
BENZ[A]ANTHRACENE
BIFENTHRIN
BIOCHEMICAL OXYGEN DEMAND (BOD)
BIS(2-ETHYLHEXYL) PHTHALATE
BORON
CADMIUM
CARBOFURAN
CHEMA
CHEMICAL OXYGEN DEMAND (COD)
CHLORDANE
CHLORDANE IN FISH TISSUE
CHLORIDE
CHLOROPHYLL-A
CHLORPYRIFOS
CHROMIUM, TOTAL
CHRYSENE
COLIFORMS
COLOR
CONDUCTIVITY
CONTAMINATED SEDIMENTS (CADMIUM)
CONTAMINATED SEDIMENTS (CHLORDANE)
CONTAMINATED SEDIMENTS (COPPER)
CONTAMINATED SEDIMENTS (LEAD)
CONTAMINATED SEDIMENTS (PAHS)
CONTAMINATED SEDIMENTS (PCBS)
CONTAMINATED SEDIMENTS (SILVER)
CONTAMINATED SEDIMENTS (ZINC)
COPPER
CYANIDE

CN_CAUSE

DISSOLVED OXYGEN SATURATION

ENTEROCOCCUS BACTERIA

MERCURY IN FISH TISSUE

NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS

PHOSPHATE

UNLISTED BUT IMPAIRED

CO_CAUSE

ALUMINUM
AMMONIA, UN-IONIZED
ARSENIC
BOD, SEDIMENT LOAD (SEDIMENT OXYGEN DEMAND)
CADMIUM
CAUSE UNKNOWN
CHLOROPHYLL-A
COPPER
DISSOLVED OXYGEN
DISSOLVED OXYGEN SATURATION
ESCHERICHIA COLI (E. COLI)
IRON
LEAD
MANGANESE
MERCURY
MERCURY IN FISH TISSUE
PH
PHOSPHORUS, TOTAL
SEDIMENTATION/SILTATION
SELENIUM
SULFATES
TEMPERATURE
TETRACHLOROETHYLENE
URANIUM
ZINC

CT_CAUSE

AMMONIA, UN-IONIZED
CADMIUM
CAUSE UNKNOWN
CHLORDANE
CHLOROPHYLL-A
COPPER
DEBRIS/FLOATABLES/TRASH
DIOXIN (INCLUDING 2,3,7,8-TCDD)
DISSOLVED OXYGEN
DISSOLVED OXYGEN SATURATION
ENTEROCOCCUS BACTERIA
ESCHERICHIA COLI (E. COLI)
ESTUARINE BIOASSESSMENTS
EXCESS ALGAL GROWTH
FECAL COLIFORM
GOLD
IRON
LEAD
MERCURY
NITROGEN, TOTAL
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
OIL AND GREASE
ORGANIC ENRICHMENT (SEWAGE) BIOLOGICAL INDICATORS
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
SEDIMENTATION/SILTATION
SILVER
SODIUM
TASTE AND ODOR
TOTAL SUSPENDED SOLIDS (TSS)
TURBIDITY
WHOLE EFFLUENT TOXICITY (WET)
ZINC

DC_CAUSE

ALTERATION IN STREAM-SIDE OR LITTORAL VEGETATIVE COVERS
ALTERATIONS IN WETLAND HABITATS
ARSENIC
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
BIOCHEMICAL OXYGEN DEMAND (BOD)
CHLORDANE
CHLORINE, RESIDUAL (CHLORINE DEMAND)
COMBINATION BENTHIC/FISHES BIOASSESSMENTS
COMBINED BIOTA/HABITAT BIOASSESSMENTS
COPPER
DDD
DDE
DDT
DEBRIS/FLOATABLES/TRASH
DIELDRIN
DISSOLVED OXYGEN SATURATION
FECAL COLIFORM
FISH BIOASSESSMENTS
FLOW ALTERATION(S)
HABITAT ASSESSMENT (STREAMS)
HEPTACHLOR EPOXIDE
LEAD
MERCURY
NITROGEN, TOTAL
OIL AND GREASE
PARTICLE DISTRIBUTION (EMBEDDEDNESS)
PH
PHOSPHORUS, TOTAL
PHYSICAL SUBSTRATE HABITAT ALTERATIONS
POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
TOTAL SUSPENDED SOLIDS (TSS)
ZINC

DE_CAUSE

CAUSE UNKNOWN
CHLORDANE
DDT
DDT IN TISSUE
DIELDRIN
DIOXIN
ENTEROCOCCUS BACTERIA
HABITAT ASSESSMENT
MERCURY
NITRATE/NITRITE
NITROGEN, TOTAL
ORGANIC ENRICHMENT (SEWAGE) BIOLOGICAL INDICATORS
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
SUSPENDED SOLIDS
TOTAL KJELDAHL NITROGEN (TKN)

FL_CAUSE

ALKALINITY, CARBONATE AS CaCO₃
AMMONIA, UN-IONIZED
ARSENIC
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
BIOCHEMICAL OXYGEN DEMAND (BOD)
CHLORIDE
CHLORINE
CHLOROPHYLL-A
COPPER
DIOXIN (INCLUDING 2,3,7,8-TCDD)
DISSOLVED OXYGEN
EXCESS ALGAL GROWTH
FECAL COLIFORM
IRON
LEAD
MACROPHYTES
MERCURY IN FISH TISSUE
NICKEL
OTHER CAUSE
PH
PHOSPHORUS, TOTAL
SILVER
SPECIFIC CONDUCTIVITY
THALLIUM
TOTAL COLIFORM
TOTAL DISSOLVED SOLIDS (TDS)
TOTAL SUSPENDED SOLIDS (TSS)
TROPIC STATE INDEX (TSI)
TURBIDITY

GA_CAUSE

BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
CADMIUM
CHLOROPHYLL-A
COPPER
DISSOLVED OXYGEN
ENTEROCOCCUS BACTERIA
FECAL COLIFORM
FISH BIOASSESSMENTS
LEAD
MERCURY IN FISH TISSUE
OTHER CAUSE
PCB(S) IN FISH TISSUE
PH
PHOSPHORUS, TOTAL
SELENIUM
TEMPERATURE, WATER
TOXAPHENE
ZINC

GU_CAUSE

ALUMINUM
AMMONIA, UN-IONIZED
ANTIMONY
ARSENIC
CHLORDANE
CHLORDANE IN FISH TISSUE
CHROMIUM, TOTAL
COPPER
DIELDRIN
DISSOLVED OXYGEN
ENTEROCOCCUS BACTERIA
ESCHERICHIA COLI (E. COLI)
IRON
MANGANESE
NICKEL
NITRATES
PCB(S) IN FISH TISSUE
SALINITY
TEMPERATURE
TETRACHLOROETHYLENE
TOTAL COLIFORM
TOTAL DISSOLVED SOLIDS (TDS)
TOTAL SUSPENDED SOLIDS (TSS)
TOXIC SEAFOOD ADVISORY (SEAWEED)
TRICHLOROETHYLENE (TCE)
TURBIDITY
UNLISTED BUT IMPAIRED
ZINC

HI_CAUSE

AMMONIA, TOTAL
CHLORDANE
CHLOROPHYLL-A
DIELDRIN
ENTEROCOCCUS BACTERIA
FECAL COLIFORM
LEAD
METALS (OTHER THAN MERCURY)
NITRATE/NITRITE
NITRATE/NITRITE (NITRITE + NITRATE AS N)
NITROGEN, TOTAL
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
ORGANOCHLORINE PESTICIDES
OTHER CAUSE
PCB(S) IN FISH TISSUE
PHOSPHATE
PHOSPHORUS, TOTAL
TOTAL SUSPENDED SOLIDS (TSS)
TRASH
TURBIDITY

IA_CAUSE

ALGAL GROWTH/CHLOROPHYLL A
ALUMINUM
AMMONIA
ARSENIC
CADMIUM
CAUSE UNKNOWN (BIOLOGICAL): MUSSELS
CAUSE UNKNOWN - BIOLOGICAL INTEGRITY
CHLORIDE
CHROMIUM
FISH CONSUMPTION ADVISORY - MERCURY
FISH CONSUMPTION ADVISORY - PCBS
FISH KILL CAUSED BY AMMONIA
FISH KILL CAUSED BY ANIMAL WASTE
FISH KILL CAUSED BY CHLORINE
FISH KILL CAUSED BY FERTILIZER SPILL
FISH KILL CAUSED BY FUEL SPILL
FISH KILL CAUSED BY ORGANIC ENRICHMENT/LOW DISSOLVED OXYGEN
FISH KILL CAUSED BY PESTICIDES
FISH KILL CAUSED BY WASTEWATER
FISH KILL DUE TO NATURAL CAUSES
FISH KILL DUE TO UNKNOWN TOXICITY
INDICATOR BACTERIA
NITRATE
ORGANIC ENRICHMENT/LOW DISSOLVED OXYGEN
PH
PRIORITY ORGANICS COMPOUNDS
SANITARY WASTE
TURBIDITY
WASTEWATER

ID_CAUSE
AMMONIA, UN-IONIZED
ANTIMONY
AQUATIC PLANT BIOASSESSMENTS
ARSENIC
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
CADMIUM
CAUSE UNKNOWN
CHLORPYRIFOS
COMBINED BIOTA/HABITAT BIOASSESSMENTS
COPPER
DISSOLVED GAS SUPERSATURATION
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
FISH BIOASSESSMENTS
HABITAT ASSESSMENT (STREAMS)
LEAD
MALATHION
MERCURY
METHYL PARATHION
NITROGEN, TOTAL
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
OIL AND GREASE
PARTICLE DISTRIBUTION (EMBEDDEDNESS)
PH
PHOSPHORUS, TOTAL
SEDIMENTATION/SILTATION
SELENIUM
TEMPERATURE, WATER
TOTAL SUSPENDED SOLIDS (TSS)
ZINC

IL_CAUSE
ALDRIN
ALPHA-BHC
AMMONIA, TOTAL
AMMONIA, UN-IONIZED
ARSENIC
ATRAZINE
BARIUM
BORON
CADMIUM
CAUSE UNKNOWN
CHLORDANE
CHLORIDES
CHLORINE
CHROMIUM, TOTAL
COPPER
DDT
DIELDRIN
DIOXIN
DISSOLVED OXYGEN
ENDRIN
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
FLUORIDE
HEPTACHLOR
HEXACHLOROBENZENE
IRON
LEAD
LINDANE
MANGANESE
MERCURY
METHOXYCHLOR
NICKEL
NITRATES
NITROGEN
NITROGEN, TOTAL
OIL AND GREASE
PH
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
SEDIMENTATION/SILTATION
SILVER
SULFATES
TOTAL DISSOLVED SOLIDS (TDS)
TOTAL SUSPENDED SOLIDS (TSS)
ZINC

IN_CAUSE	KS_CAUSE
ALGAE	AMMONIA
AMMONIA	ARSENIC
CHLORIDES	ATRAZINE
COPPER	BIOLOGY
CYANIDE	BORON
DIOXINS	CADMIUM
DISSOLVED OXYGEN	CHLORIDE
ESCHERICHIA COLI (E. COLI)	COPPER
FISH CONSUMPTION ADVISORY - MERCURY	DIAZINON
FISH CONSUMPTION ADVISORY - PCBS	DISSOLVED OXYGEN
IMPAIRED BIOTIC COMMUNITIES	ESCHERICHIA COLI (E. COLI)
LEAD	EUTROPHICATION
MERCURY IN FISH TISSUE	FLUORIDE
NICKEL	GROSS ALPHA
NUTRIENTS	LEAD
OIL AND GREASE	MERCURY IN FISH TISSUE
PCB(S) IN FISH TISSUE	NITRATE
PESTICIDES	PCB(S) IN FISH TISSUE
PH	PERCHLORATE
PHOSPHORUS	PH
SILTATION	PHOSPHORUS, TOTAL
SULFATES	SELENIUM
TASTE AND ODOR	SILTATION
TOTAL DISSOLVED SOLIDS (TDS)	SULFATE
ZINC	SUSPENDED SOLIDS
	TEMPERATURE
	ZINC

KY_CAUSE

AMMONIA, TOTAL
AMMONIA, UN-IONIZED
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
BETA PARTICLES AND PHOTON EMITTERS
CADMIUM
CARBONACEOUS BOD
CAUSE UNKNOWN
CHLORIDE
CHLORINE
CHLORINE, RESIDUAL (CHLORINE DEMAND)
CHROMIUM, TOTAL
COPPER
DIOXIN
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
GROSS ALPHA
HABITAT ASSESSMENT (STREAMS)
IRON
LEAD
MANGANESE
MERCURY
MERCURY IN FISH TISSUE
MERCURY IN WATER COLUMN
METHYL MERCURY
METHYLMERCURY
NICKEL
NITRATE/NITRITE (NITRITE + NITRATE AS N)
NITRATES
NITROGEN, TOTAL
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
OIL AND GREASE
ORGANIC ENRICHMENT (SEWAGE) BIOLOGICAL INDICATORS
OTHER CAUSE
PARTICLE DISTRIBUTION (EMBEDDEDNESS)
PCB(S) IN FISH TISSUE
PH
PHOSPHORUS, TOTAL
PHYSICAL SUBSTRATE HABITAT ALTERATIONS
POLYCHLORINATED BIPHENYLS (PCBS)
SALINITY
SEDIMENTATION/SILTATION
SELENIUM
SPECIFIC CONDUCTIVITY
SULFATES
TEMPERATURE, WATER

LA_CAUSE

CHLORIDE
COLOR
COPPER
DISSOLVED OXYGEN
ENTEROCOCCUS BACTERIA
FECAL COLIFORM
LEAD
MERCURY IN FISH TISSUE
PH, HIGH
PH, LOW
PHOSPHORUS, TOTAL
SULFATES
TEMPERATURE, WATER
TOTAL DISSOLVED SOLIDS (TDS)
TURBIDITY

MA_CAUSE

2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (ONLY)
ABNORMAL FISH DEFORMITIES, EROSIONS, LESIONS, TUMORS (DELTS)
ABNORMAL FISH HISTOLOGY
ALUMINUM
AMBIENT BIOASSAYS - CHRONIC AQUATIC TOXICITY
AMMONIA, UN-IONIZED
AQUATIC MACROINVERTEBRATE BIOASSESSMENTS
AQUATIC PLANTS (MACROPHYTES)
ARSENIC
BOTTOM DEPOSITS
CADMIUM
CHLORDANE
CHLORIDE
CHLOROPHYLL-A
CHROMIUM, TOTAL
COLOR
COMBINED BIOTA/HABITAT BIOASSESSMENTS
COPPER
DDT
DEHP (DI-SEC-OCTYL PHTHALATE)
DIOXIN (INCLUDING 2,3,7,8-TCDD)
DISSOLVED OXYGEN
DISSOLVED OXYGEN SATURATION
ENTEROCOCCUS BACTERIA
ESCHERICHIA COLI (E. COLI)
ESTUARINE BIOASSESSMENTS
EXCESS ALGAL GROWTH
FECAL COLIFORM
FISH BIOASSESSMENTS
FOAM/FLOCS/SCUM/OIL SLICKS
LACK OF A COLDWATER ASSEMBLAGE
LEAD
MERCURY IN FISH TISSUE
MERCURY IN WATER COLUMN
NITROGEN, TOTAL
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
OIL AND GREASE
ORGANIC ENRICHMENT (SEWAGE) BIOLOGICAL INDICATORS
OTHER CAUSE
PCB(S) IN FISH TISSUE
PENTACHLOROPHENOL (PCP)
PETROLEUM HYDROCARBONS
PH, HIGH
PH, LOW
PHOSPHORUS, TOTAL
PHYSICAL SUBSTRATE HABITAT ALTERATIONS

MD_CAUSE

ALUMINUM
AMMONIA
CAUSE UNKNOWN
CHLORIDES
CHROMIUM, TOTAL
COPPER
DEBRIS/FLOATABLES/TRASH
ENTEROCOCCUS BACTERIA
FECAL COLIFORM
HEPTACHLOR EPOXIDE
IRON
LEAD IN SEDIMENT
MANGANESE
MERCURY IN FISH TISSUE
NITROGEN, TOTAL
PCB(S) IN FISH TISSUE
PCBS IN SEDIMENTS AND FISH TISSUE
PH, HIGH
PH, LOW
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
SEDIMENTATION/SILTATION
SULFATES
TOTAL SUSPENDED SOLIDS (TSS)
TOXICS
ZINC IN SEDIMENT

ME_CAUSE

1,1-DICHLOROETHANE
1,2-DICHLOROETHANE
AQUATIC LIFE
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
CAUSE UNKNOWN
CHLOROPHYLL-A
COPPER
DDT
DIOXIN (INCLUDING 2,3,7,8-TCDD)
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
HABITAT ASSESSMENT (STREAMS)
IRON
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
PERIPHYTON (AUFWUCHS) INDICATOR BIOASSESSMENTS
PH
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
SECCHI DISK TRANSPARENCY
TOXICITY
TOXICS
UNDETERMINED NPS STRESSOR

MI_CAUSE

AMMONIA, TOTAL
AMMONIA, UN-IONIZED
BACTERIAL SLIMES
CAUSE UNKNOWN
CHLORDANE
CHROMIUM, TOTAL
COPPER
DDT
DIOXIN
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
EXCESS ALGAL GROWTH
FISH KILL(S)
FLOW ALTERATION(S)
LEAD
MERCURY
MERCURY IN FISH TISSUE
NOXIOUS AQUATIC PLANTS NATIVE
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
OIL AND GREASE
ORGANIC ENRICHMENT (SEWAGE) BIOLOGICAL INDICATORS
OTHER ANTHROPOGENIC SUBSTRATE ALTERATIONS
OTHER HABITAT ALTERATION(S)
PCB(S) IN FISH TISSUE
PETROLEUM HYDROCARBONS
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
SEDIMENTATION/SILTATION
SUSPENDED SOLIDS
TEMPERATURE
TOTAL DISSOLVED SOLIDS (TDS)

MN_CAUSE

ACETOCHLOR
AMMONIA
AQUATIC MACROINVERTEBRATE BIOASSESSMENTS
AQUATIC PLANT BIOASSESSMENTS
CHLORIDE
DDT
DIELDRIN
DIOXIN
DISSOLVED OXYGEN
EUTROPHICATION
FECAL COLIFORM
FISH BIOASSESSMENTS
LACK OF A COLDWATER ASSEMBLAGE
MERCURY
MERCURY IN FISH TISSUE
NUTRIENTS - ALGAE
PCB(S) IN FISH TISSUE
PERFLUOROOCTANE SULFONATE (PFOS) IN FISH TISSUE
PH
POLYCHLORINATED BIPHENYLS (PCBS)
TEMPERATURE
TOXAPHENE
TURBIDITY

MO_CAUSE

AMMONIA
AMMONIA, UN-IONIZED
AQUATIC MACROINVERTEBRATE BIOASSESSMENTS
ATRAZINE
CADMIUM
CHLORIDE
CHLOROPHYLL-A
CONTAMINATED SEDIMENTS (ARSENIC)
CONTAMINATED SEDIMENTS (BENZO[A]ANTHRACENE)
CONTAMINATED SEDIMENTS (BENZO[A]PYRENE)
CONTAMINATED SEDIMENTS (CADMIUM)
CONTAMINATED SEDIMENTS (CHRYSENE)
CONTAMINATED SEDIMENTS (LEAD)
CONTAMINATED SEDIMENTS (NICKEL)
CONTAMINATED SEDIMENTS (PHENANTHRENE)
CONTAMINATED SEDIMENTS (PYRENE)
CONTAMINATED SEDIMENTS (ZINC)
COPPER
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
FISH BIOASSESSMENTS
LEAD
MERCURY IN FISH TISSUE
NITROGEN, TOTAL
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
PH
PHOSPHORUS, TOTAL
SEDIMENTATION/SILTATION
SULFATE + CHLORIDE
TEMPERATURE
UNKNOWN TOXICITY
ZINC

MS_CAUSE

BIOLOGICAL IMPAIRMENT
CADMIUM
CONDUCTIVITY
ENTEROCOCCUS BACTERIA
FECAL COLIFORM
LEAD
NITROGEN
NUTRIENTS
ORGANIC ENRICHMENT/LOW DISSOLVED OXYGEN
PH
PHOSPHORUS

MT_CAUSE

ALUMINUM
AMMONIA, TOTAL
AMMONIA, UN-IONIZED
ANTIMONY
ARSENIC
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
BIOCHEMICAL OXYGEN DEMAND (BOD)
BOTTOM DEPOSITS
CADMIUM
CHLORIDE
CHROMIUM, TOTAL
COMBINED BIOTA/HABITAT BIOASSESSMENTS
COPPER
CYANIDE
DDE
DDT
DISSOLVED GAS SUPERSATURATION
DISSOLVED OXYGEN
DISSOLVED OXYGEN SATURATION
ENDOSULFAN SULFATE
ENDRIN ALDEHYDE
ESCHERICHIA COLI (E. COLI)
FISH PASSAGE BARRIER
IRON
LEAD
MANGANESE
MERCURY
NICKEL
NITRATE/NITRITE (NITRITE + NITRATE AS N)
NITRATES
NITROGEN, NITRATE
NITROGEN, TOTAL
NON-NATIVE FISH/SHELLFISH/ZOOPLANKTON
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
OIL AND GREASE
ORGANIC ENRICHMENT (SEWAGE) BIOLOGICAL INDICATORS
OTHER CAUSE
PCB IN WATER COLUMN
PH
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
SALINITY
SEDIMENTATION/SILTATION
SELENIUM
SILVER

NC_CAUSE

ARSENIC
CADMIUM
CHLORIDE
CHLOROPHYLL-A
COPPER
DIOXIN
DISSOLVED OXYGEN
ECOLOGICAL/BIOLOGICAL INTEGRITY BENTHOS
ECOLOGICAL/BIOLOGICAL INTEGRITY FISHCOM
ENTEROCOCCUS BACTERIA
FECAL COLIFORM
HIGH PH
LEAD
LOW PH
MERCURY IN WATER COLUMN
NICKEL
NITRATE/NITRITE (NITRITE + NITRATE AS N)
POLYCHLORINATED BIPHENYLS (PCBS)
RECREATION ADVISORY POSTINGS
SHELLFISH GROWING AREA-CONDITIONALLY APPROVED CLOSED
SHELLFISH GROWING AREA-CONDITIONALLY APPROVED OPEN
SHELLFISH GROWING AREA-PROHIBITED
TEMPERATURE
TURBIDITY
ZINC

ND_CAUSE

ARSENIC
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
CADMIUM
CHLORIDE
COMBINATION BENTHIC/FISHES BIOASSESSMENTS
COPPER
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
FISH BIOASSESSMENTS
LEAD
METHYL MERCURY
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
SEDIMENTATION/SILTATION
SELENIUM
TEMPERATURE, WATER
TOTAL DISSOLVED SOLIDS (TDS)

NE_CAUSE

ALGAL BLOOMS
ALGAL TOXINS
AMMONIA
ATRAZINE
BIOLOGICAL INTEGRITY
CHLORIDE
CHLOROPHYLL-A
CONDUCTIVITY
COPPER
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
FISH CONSUMPTION ADVISORY
NITROGEN, TOTAL
PH
PHOSPHORUS, TOTAL
SEDIMENT
SELENIUM
TEMPERATURE

NH_CAUSE	NJ_CAUSE
2-METHYLNAPHTHALENE	AMMONIA, UN-IONIZED
ACENAPHTHENE	ARSENIC
ACENAPHTHYLENE	BENZENE
ALUMINUM	BENZO[A]PYRENE
AMMONIA, UN-IONIZED	CADMIUM
ANTHRACENE	CAUSE UNKNOWN
ARSENIC	CHLORDANE
BARIUM	CHLORDANE IN FISH TISSUE
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS	CHLORIDE
BENZO[A]ANTHRACENE	CHROMIUM, HEXAVALENT
BENZO[A]PYRENE	CHROMIUM, TOTAL
BENZO[B]FLUORANTHENE	COPPER
BENZO[G,H,I]PERYLENE	CYANIDE
BENZO[K]FLUORANTHENE	DDD
BIPHENYL	DDE
CADMIUM	DDT
CHLORIDE	DIELDRIN
CHLOROPHYLL-A	DIOXIN (INCLUDING 2,3,7,8-TCDD)
CHROMIUM, TOTAL	DISSOLVED OXYGEN
CHRYSENE	ENTEROCOCCUS BACTERIA
COPPER	ESCHERICHIA COLI (E. COLI)
CREOSOTE	FECAL COLIFORM
CYANOBACTERIA HEPATOTOXIC MICROCYSTINS	HEPTACHLOR EPOXIDE
DDD	HEXACHLOROBENZENE
DDE	LEAD
DDT	MERCURY IN FISH TISSUE
DIBENZ[A,H]ANTHRACENE	MERCURY IN WATER COLUMN
DIELDRIN	NICKEL
DIOXIN (INCLUDING 2,3,7,8-TCDD)	NITRATES
DISSOLVED OXYGEN	PCB(S) IN FISH TISSUE
DISSOLVED OXYGEN SATURATION	PH
ENDRIN	PHOSPHORUS, TOTAL
ENTEROCOCCUS BACTERIA	POLYCHLORINATED BIPHENYLS (PCBS)
ESCHERICHIA COLI (E. COLI)	SILVER
ESTUARINE BIOASSESSMENTS	SULFATES
EXCESS ALGAL GROWTH	TEMPERATURE, WATER
FECAL COLIFORM	TETRACHLOROETHYLENE
FISH BIOASSESSMENTS	THALLIUM
FLUORANTHENE	TOTAL COLIFORM
FLUORENE	TOTAL DISSOLVED SOLIDS (TDS)
FOAM/FLOCS/SCUM/OIL SLICKS	TOTAL SUSPENDED SOLIDS (TSS)
HEPTACHLOR	TRICHLOROETHYLENE (TCE)
INDENO[1,2,3-CD]PYRENE	TURBIDITY
IRON	ZINC
LEAD	
LIGHT ATTENUATION COEFFICIENT	

NM_CAUSE

ALUMINUM
ALUMINUM, ACUTE
ALUMINUM, CHRONIC
AMBIENT BIOASSAYS - ACUTE AQUATIC TOXICITY
AMMONIA, TOTAL
ARSENIC
BENTHIC MACROINVERTEBRATES
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
BORON
CADMIUM
COPPER, ACUTE
COPPER, CHRONIC
DDT IN FISH TISSUE
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
GROSS ALPHA
LEAD
MERCURY
MERCURY IN FISH TISSUE
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
PCB(S) IN FISH TISSUE
PH
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
RADIUM 226
RADIUM 228
SEDIMENTATION/SILTATION
SELENIUM, TOTAL RECOVERABLE
SPECIFIC CONDUCTIVITY
TEMPERATURE
TEMPERATURE, WATER
THALLIUM
TURBIDITY
URANIUM
ZINC, ACUTE

NV_CAUSE

ARSENIC
BORON
CADMIUM
COPPER
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
FLUORIDE
IRON
MANGANESE
MERCURY IN FISH TISSUE
MERCURY IN SEDIMENT
MERCURY IN WATER COLUMN
NICKEL
NITROGEN, NITRATE
NITROGEN, TOTAL
ORTHOPHOSPHORUS
PH
PHOSPHORUS, TOTAL
SELENIUM
SULFATES
TEMPERATURE, WATER
TOTAL DISSOLVED SOLIDS (TDS)
TOTAL SUSPENDED SOLIDS (TSS)
TURBIDITY
ZINC

NY_CAUSE

AESTHETICS
ALDICARB
ALGAL GROWTH
ALUMINUM
AMMONIA
ARSENIC
CADMIUM
CAUSE UNKNOWN
CHLORDANE
CHLORDANE/DDT
CHLORINE
CIS-1,2-DICHLOROETHYLENE
CLARITY
COLOR
COPPER
CYANIDE
DDD
DDT
DEBRIS
DIELDRIN
DIOXIN
FISH PASSAGE BARRIER
FLOATABLES
FLOW ALTERATION(S)
HABITAT
LEAD
MERCURY
METALS (OTHER THAN MERCURY)
METHYL TERTIARY-BUTYL ETHER (MTBE)
MIREX
NICKEL
NITRITE
NITROGEN
NUTRIENTS
NUTRIENTS/NUTRIENT RECYCLING
ODORS
OIL
OIL AND GREASE
ORGANOCHLORINE PESTICIDES
OTHER CAUSE
OTHER POLLUTANTS/ENCROACHMENT
OTHER POLLUTANTS/LOSS OF COVER, PREDATIO
OXYGEN DEMAND
PAPER SLUDGE
PATHOGENS
PESTICIDES

OH_CAUSE

ALTERATION IN STREAM-SIDE OR LITTORAL VEGETATIVE COVERS
ALUMINUM
AMMONIA
AMMONIA, TOTAL
AMMONIA, UN-IONIZED
ARSENIC
ATRAZINE
BARIUM
CAUSE UNKNOWN
CHEMICAL OXYGEN DEMAND (COD)
CHLORINE
COPPER
DDT IN TISSUE
DISSOLVED OXYGEN
EXCESS ALGAL GROWTH
EXOTIC SPECIES
FISH BARRIERS
FISH CONSUMPTION ADVISORY - HEXACHLOROBENZE
FISH CONSUMPTION ADVISORY - MIREX
FISH KILL(S)
FLOW ALTERATION(S)
HABITAT ALTERATIONS
IRON
MERCURY IN FISH TISSUE
METALS (OTHER THAN MERCURY)
NATURAL LIMITS
NATURAL LIMITS (DROUGHT)
NATURAL LIMITS (WETLANDS)
NICKEL
NITRATE
NITRATES
NITRITE/NITRATE
NUTRIENTS
OIL AND GREASE
ORGANIC ENRICHMENT
ORGANIC ENRICHMENT (SEWAGE) BIOLOGICAL INDICATORS
ORGANIC ENRICHMENT/LOW DISSOLVED OXYGEN
OTHER INORGANICS
PATHOGENS
PCB(S) IN FISH TISSUE
PESTICIDES
PH
PHOSPHORUS, TOTAL
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
PRIORITY ORGANICS COMPOUNDS
SALINITY/TOTAL DISSOLVED SOLIDS/CHLORIDES

OK_CAUSE

AMMONIA, UN-IONIZED
ARSENIC
BARIUM
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
CADMIUM
CHLORIDE
CHLOROPHYLL-A
CHLORPYRIFOS
CHROMIUM, TOTAL
COLOR
COPPER
DDT
DIAZINON
DIELDRIN
DISSOLVED OXYGEN
ENTEROCOCCUS BACTERIA
ESCHERICHIA COLI (E. COLI)
FISH BIOASSESSMENTS
LEAD
MERCURY
NITRATES
OIL AND GREASE
PH
PHOSPHORUS, TOTAL
SEDIMENTATION/SILTATION
SELENIUM
SILVER
SULFATES
THALLIUM
TOTAL DISSOLVED SOLIDS (TDS)
TOXAPHENE
TURBIDITY
ZINC

OR_CAUSE

ALDRIN
AMMONIA
AQUATIC WEEDS OR ALGAE
ARSENIC
BERYLLIUM
BIOLOGICAL CRITERIA
CADMIUM
CHLORDANE
CHLOROPHYLL-A
CHLORPYRIFOS
CHROMIUM, HEXAVALENT
COPPER
DDE
DDT
DICHLOROETHYLENE/1,1-DCE
DIELDRIN
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
GUTHION(AZINPHOS-METHYL)
HEPTACHLOR
IRON
LEAD
MANGANESE
MERCURY
NICKEL
NITRATES
PENTACHLOROPHENOL (PCP)
PH
PHOSPHORUS
POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
SEDIMENTATION
SILVER
TEMPERATURE
TETRACHLOROETHYLENE
TOTAL DISSOLVED GAS
TRICHLOROETHYLENE (TCE)
TURBIDITY
ZINC

PA_CAUSE

AMMONIA, UN-IONIZED
CAUSE UNKNOWN
CHLORDANE
CHLORINE
COLOR
DIOXINS
DISSOLVED OXYGEN
EXCESS ALGAL GROWTH
MERCURY
METALS (OTHER THAN MERCURY)
MIREX
NONPRIORITY ORGANICS
NOXIOUS AQUATIC PLANTS
NUTRIENTS
OIL AND GREASE
ORGANIC ENRICHMENT/LOW DISSOLVED OXYGEN
OTHER CAUSE
OTHER HABITAT ALTERATION(S)
OTHER INORGANICS
PATHOGENS
PESTICIDES
PH
POLYCHLORINATED BIPHENYLS (PCBS)
PRIORITY ORGANICS COMPOUNDS
SALINITY/TOTAL DISSOLVED SOLIDS/CHLORIDES
SILTATION
SUSPENDED SOLIDS
TASTE AND ODOR
THERMAL MODIFICATIONS
TURBIDITY
UNKNOWN TOXICITY

PR_CAUSE

AMMONIA
ARSENIC
CADMIUM
COPPER
CYANIDE
DISSOLVED OXYGEN
ENTEROCOCCUS BACTERIA
FECAL COLIFORM
LEAD
MERCURY
NITRATE/NITRITE
OIL AND GREASE
OTHER INORGANICS
PESTICIDES
PH
PHOSPHORUS
SELENIUM
SILVER
SURFACTANTS
THERMAL MODIFICATIONS
TOTAL COLIFORM
TURBIDITY

RI_CAUSE

ALUMINUM
AMBIENT BIOASSAYS - CHRONIC AQUATIC TOXICITY
AQUATIC MACROINVERTEBRATE BIOASSESSMENTS
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
CADMIUM
CHLORIDE
COPPER
DIOXIN (INCLUDING 2,3,7,8-TCDD)
DISSOLVED OXYGEN
ENTEROCOCCUS BACTERIA
FECAL COLIFORM
IRON
LEAD
MERCURY
MERCURY IN FISH TISSUE
MERCURY IN WATER COLUMN
NITROGEN, TOTAL
PCB(S) IN FISH TISSUE
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
SEDIMENT BIOASSAYS FOR ESTUARINE AND MARINE WATER
TOTAL SUSPENDED SOLIDS (TSS)
TURBIDITY
WHOLE EFFLUENT TOXICITY (WET)

SC_CAUSE

AMMONIA, TOTAL
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
CHLOROPHYLL-A
CHROMIUM, TOTAL
COPPER
DISSOLVED OXYGEN
ENTEROCOCCUS BACTERIA
FECAL COLIFORM
MERCURY
NICKEL
NITROGEN, TOTAL
PH
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
TURBIDITY
ZINC

SD_CAUSE

CAUSE UNKNOWN
CHLOROPHYLL-A
DISSOLVED OXYGEN
ESCHERICHIA COLI (E. COLI)
FECAL COLIFORM
MERCURY
PH
SALINITY
SODIUM
SPECIFIC CONDUCTIVITY
TEMPERATURE, WATER
TOTAL DISSOLVED SOLIDS (TDS)
TOTAL SUSPENDED SOLIDS (TSS)

TN_CAUSE

ACETONE
ALDRIN
ALTERATION IN STREAM-SIDE OR LITTORAL VEGETATIVE COVERS
ALUMINUM
AMMONIA, UN-IONIZED
AQUATIC PLANTS - NATIVE
ARSENIC
CAUSE UNKNOWN
CESIUM
CHLORDANE
CHLORIDE
CHLORINE
CHROMIUM, HEXAVALENT
COAL ASH
COLOR
COPPER
CREOSOTE
DDT
DIELDRIN
DIOXIN (INCLUDING 2,3,7,8-TCDD)
DISSOLVED OXYGEN
ENDRIN
ESCHERICHIA COLI (E. COLI)
IRON
LEAD
MANGANESE
MERCURY
NITRATE/NITRITE (NITRITE + NITRATE AS N)
NITRATES
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
ODOR THRESHOLD NUMBER
OIL AND GREASE
OTHER ANTHROPOGENIC SUBSTRATE ALTERATIONS
PCB-1260
PH
PH, LOW
PHOSPHATE
PHOSPHORUS, TOTAL
PHYSICAL SUBSTRATE HABITAT ALTERATIONS
POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
RDX (HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE)
SEDIMENTATION/SILTATION
SILTATION
SLUDGE
SOLIDS (SUSPENDED/BEDLOAD)

TX_CAUSE	UT_CAUSE
ALUMINUM	ARSENIC
BACTERIA	BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
BACTERIA (OYSTER WATERS)	BORON
CHLORIDE	CADMIUM
COPPER	DISSOLVED OXYGEN
DDE	ESCHERICHIA COLI (E. COLI)
DIOXIN (INCLUDING 2,3,7,8-TCDD)	FECAL COLIFORM
DISSOLVED OXYGEN	MERCURY IN FISH TISSUE
FISH COMMUNITY	PCB(S) IN FISH TISSUE
IMPAIRED MACROBENTHOS COMMUNITY	PH
MERCURY IN FISH TISSUE	PHOSPHORUS, TOTAL
MERCURY IN WATER COLUMN	SELENIUM
PCB(S) IN FISH TISSUE	TEMPERATURE, WATER
PH	TOTAL DISSOLVED SOLIDS (TDS)
SEDIMENT TOXICITY	
SELENIUM	
SULFATES	
TOTAL DISSOLVED SOLIDS (TDS)	
TOXICITY	
ZINC	

VA_CAUSE

ALDRIN
AMMONIA, UN-IONIZED
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
BENZO[A]PYRENE
BENZO[B]FLUORANTHENE
BENZO[K]FLUORANTHENE
CADMIUM
CHLORDANE
CHLORIDE
CHLOROPHYLL-A
COPPER
DDD
DDE
DDT
DDT IN TISSUE
DIOXIN (INCLUDING 2,3,7,8-TCDD)
DISSOLVED OXYGEN
ENTEROCOCCUS BACTERIA
ESCHERICHIA COLI (E. COLI)
ESTUARINE BIOASSESSMENTS
FECAL COLIFORM
HEPTACHLOR EPOXIDE
MACROPHYTES
MERCURY IN FISH TISSUE
MIREX
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
PCB(S) IN FISH TISSUE
PH
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
SEDIMENT BIOASSAYS FOR ESTUARINE AND MARINE WATER
TEMPERATURE
ZINC

VI_CAUSE

DISSOLVED OXYGEN
ENTEROCOCCUS BACTERIA
FECAL COLIFORM
PH
PHOSPHORUS
SECCHI DISK TRANSPARENCY
TEMPERATURE
TOXICITY
TURBIDITY

VT_CAUSE

AG RUNOFF
ASBESTOS
ESCHERICHIA COLI (E. COLI)
IRON
METALS, ACID - MINING
NUTRIENTS
ORGANIC ENRICHMENT (SEWAGE) BIOLOGICAL INDICATORS
PCB(S) IN FISH TISSUE
PH
PH, LOW
PHOSPHORUS, TOTAL
SEDIMENTATION/SILTATION
STORMWATER
TEMPERATURE, WATER
TOXICS
ZINC

WA_CAUSE

1,2,4-TRICHLOROBENZENE
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (ONLY)
2,4-DIMETHYLPHENOL
2-METHYLNAPHTHALENE
4-METHYLPHENOL
ACENAPHTHENE
ACENAPHTHYLENE
ALDRIN
ALPHA-BHC
AMMONIA, TOTAL
ANTHRACENE
ARSENIC
BENZOIC ACID
BENZO[A]ANTHRACENE
BENZO[A]PYRENE
BENZO[B]FLUORANTHENE
BENZO[G,H,I]PERYLENE
BENZO[K]FLUORANTHENE
BENZYL ALCOHOL
BIOASSESSMENT
BIS(N-OCTYL) PHTHALATE
BUTYL BENZYL PHTHALATE
CADMIUM
CHLORDANE
CHLORINATED PESTICIDES
CHLORINE
CHLORPYRIFOS
CHROMIUM, TOTAL
CHRYSENE
COPPER
DDD
DDE
DDT
DEHP (DI-SEC-OCTYL PHTHALATE)
DIAZINON
DIBENZOFURAN
DIBENZ[A,H]ANTHRACENE
DIBUTYL PHTHALATE
DIELDRIN
DIETHYL PHTHALATE
DIMETHYL PHTHALATE
DIOXIN
DISSOLVED OXYGEN
ENDOSULFAN
FECAL COLIFORM
FINE SEDIMENT

WI_CAUSE

AMMONIA
AQUATIC TOXICITY
ARSENIC
BACTERIA
BEACH CLOSURES
BIOCHEMICAL OXYGEN DEMAND (BOD)
COAL TAR
CREOSOTE
DEGRADED HABITAT
DIOXIN
DISSOLVED OXYGEN
EUTROPHICATION
FISH CONSUMPTION ADVISORY
FISH CONSUMPTION ADVISORY - MERCURY
FISH CONSUMPTION ADVISORY - PCBS
FISH KILL(S)
MERCURY
METALS (OTHER THAN MERCURY)
NUTRIENTS
PETROLEUM PRODUCTS
PH
PHOSPHORUS
POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
SEDIMENT
SEDIMENT OXYGEN DEMAND
TEMPERATURE
TOXIC SUBSTANCES
TURBIDITY
URBAN RUNOFF
WILDLIFE
WINTER KILLS

WV_CAUSE

2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (ONLY)
ALUMINUM
BACTERIA
BENTHIC MACROINVERTEBRATES BIOASSESSMENTS
CHLORIDE
DISSOLVED OXYGEN
FECAL COLIFORM
IRON
LEAD
MANGANESE
METALS (OTHER THAN MERCURY)
NITRITE AS NITROGEN
PH
POLYCHLORINATED BIPHENYLS (PCBS)
SELENIUM
TEMPERATURE
ZINC

WY_CAUSE

AMMONIA, UN-IONIZED

ARSENIC

CHLORIDE

ESCHERICHIA COLI (E. COLI)

FECAL COLIFORM

MANGANESE

NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS

OIL AND GREASE

PH

PHOSPHATE

PHYSICAL SUBSTRATE HABITAT ALTERATIONS

SEDIMENTATION/SILTATION

SELENIUM

TEMPERATURE, WATER

TN
TT
TX
UT
VA
VI
VT
WA
WI
WV
WY

CYANOBACTERIA HEPATOTOXIC MICROCYSTINS

DDD

DDE

DDT

DDT IN SEDIMENT

DDT IN TISSUE

DDT IN TISSUE AND SEDIMENT

DEBRIS

DIAZINON

DIBENZ[A,H]ANTHRACENE

DICHLORVOS

DIELDRIN

DIELDRIN IN SEDIMENT

DIELDRIN IN TISSUE

DIMETHOATE

DIOXIN

DIOXIN (INCLUDING 2,3,7,8-TCDD)

DISSOLVED OXYGEN

DISULFOTON

DIURON

ENDOSULFAN

ENDRIN

ENTEROCOCCUS BACTERIA

ESCHERICHIA COLI (E. COLI)

EUTROPHICATION

EXOTIC VEGETATION

FECAL COLIFORM

FISH BARRIERS

FISH CONSUMPTION ADVISORY

FISH KILL(S)

FLUORIDE

FURAN COMPOUNDS

GROUP A PESTICIDES

GUTHION(AZINPHOS-METHYL)

HEPTACHLOR EPOXIDE

HEXACHLOROBENZENE

HYDROGEN SULFIDE

HYDROMODIFICATION

INDICATOR BACTERIA

INVASIVE EXOTIC SPECIES

IRON

LEAD

LINDANE

MALATHION

MANGANESE

MERCURY

MERCURY IN FISH TISSUE

TOTAL DISSOLVED SOLIDS (TDS)
TOTAL KJELDAHL NITROGEN (TKN)
TOTAL SUSPENDED SOLIDS (TSS)
TURBIDITY
ZINC

POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
SALINITY
SECCHI DISK TRANSPARENCY
SEDIMENT BIOASSAY
SEDIMENT BIOASSAYS - ACUTE TOXICITY FRESHWATER
SEDIMENT SCREENING VALUE (EXCEEDENCE)
SEDIMENTATION/SILTATION
SULFIDE-HYDROGEN SULFIDE
TASTE AND ODOR
TEMPERATURE, WATER
TOTAL SUSPENDED SOLIDS (TSS)
TURBIDITY
WHOLE EFFLUENT TOXICITY (WET)

SODIUM
SOLIDS (SUSPENDED/BEDLOAD)
SPECIFIC CONDUCTIVITY
SULFATES
TEMPERATURE, WATER
THALLIUM
TOTAL DISSOLVED SOLIDS (TDS)
TOTAL KJEHLDAHL NITROGEN (TKN)
TURBIDITY
URANIUM
ZINC

LINDANE
MANGANESE
MERCURY
NAPHTHALENE
NICKEL
NITROGEN, TOTAL
PH
PHENANTHRENE
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
PYRENE
SEDIMENTATION/SILTATION
TASTE AND ODOR
TRANS-NONACHLOR
TURBIDITY
ZINC

PH
PHENOL
PHOSPHORUS
POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
PRIORITY ORGANICS
PRIORITY POLLUTANTS
PROBLEM SPECIES
SALTS
SEDIMENTATION/SILTATION
SLUDGE
THERMAL MODIFICATIONS
TOTAL TRIHALOMETHANE (TTHM)
TRASH
TURBIDITY
UNKNOWN TOXICITY
VOLATILE ORGANICS (VOCs)
ZINC

SEDIMENTATION/SILTATION
SILTATION
SULFATES
SUSPENDED SOLIDS
TASTE AND ODOR
TEMPERATURE
THERMAL MODIFICATIONS
TOTAL DISSOLVED SOLIDS (TDS)
TOTAL TOXICS
TURBIDITY
UNKNOWN TOXICITY
ZINC

STRONTIUM
SULFATES
SULFIDE-HYDROGEN SULFIDE
TASTE AND ODOR
TEMPERATURE, WATER
TOLUENE
TOTAL DISSOLVED SOLIDS (TDS)
WHOLE EFFLUENT TOXICITY (WET)
ZINC

FLUORANTHENE
FLUORENE
FURAN COMPOUNDS
HEPTACHLOR
HEXACHLOROBENZENE
HEXACHLOROBUTADIENE
HPAH
INDENO[1,2,3-CD]PYRENE
LEAD
LPAH
MERCURY
N-NITROSODIPHENYLAMINE
NAPHTHALENE
NITROGEN, TOTAL
O-CRESOL (2-METHYLPHENOL)
O-DICHLOROBENZENE
P-DICHLOROBENZENE
PENTACHLOROPHENOL (PCP)
PH
PHENANTHRENE
PHENOL
PHOSPHORUS, TOTAL
POLYCHLORINATED BIPHENYLS (PCBS)
PYRENE
SEDIMENT BIOASSAY
SILVER
TEMPERATURE
TOTAL BENZOFUORANTHENES
TOTAL DISSOLVED GAS
TOXAPHENE
TURBIDITY
WATER COLUMN BIOASSAY
ZINC

MERCURY IN SEDIMENT
METALS (OTHER THAN MERCURY)
MOLYBDENUM
NICKEL
NITRATE
NITRATE/NITRITE
NITRITE AS NITROGEN
NITROGEN
NITROGEN, NITRATE
NITROGEN, TOTAL
NUTRIENT/EUTROPHICATION BIOLOGICAL INDICATORS
NUTRIENTS
ODORS
OIL
ORGANIC ENRICHMENT/LOW DISSOLVED OXYGEN
ORGANOPHOSPHORUS PESTICIDES
OTHER HABITAT ALTERATION(S)
OXYFLUORFEN
PATHOGENS
PCB(S) IN FISH TISSUE
PCBS - DIOXIN-LIKE
PCBS IN SEDIMENTS AND FISH TISSUE
PENTACHLOROPHENOL (PCP)
PERCHLORATE
PERMETHRIN
PESTICIDES
PH
PH, HIGH
PH, LOW
PHENANTHRENE
PHOSPHATE
PHOSPHORUS
POLYCHLORINATED BIPHENYLS (PCBS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) (AQUATIC ECOSYSTEMS)
PRIORITY ORGANICS COMPOUNDS
PROMETRYN
PUMPING
PYRENE
PYRETHROIDS
REDUCED TIDAL FLUSHING
SALINITY
SALINITY/TOTAL DISSOLVED SOLIDS/CHLORIDES
SCUM/FOAM, UNNATURAL
SEDIMENT
SEDIMENT TOXICITY
SEDIMENTATION/SILTATION
SELENIUM

SHELLFISH HARVESTING ADVISORY
SILVER
SIMAZINE
SODIUM
SOLIDS
SPECIFIC CONDUCTIVITY
SULFATES
SURFACTANTS
SYNTHETIC ORGANICS
TEMPERATURE
TEMPERATURE, WATER
THALLIUM
TOTAL COLIFORM
TOTAL DISSOLVED SOLIDS (TDS)
TOTAL SUSPENDED SOLIDS (TSS)
TOXAPHENE
TOXICITY
TRACE ELEMENTS
TRASH
TRIFLURALIN
TURBIDITY
UNKNOWN TOXICITY
WATER DIVERSION
ZINC

